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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,309	09/17/2003	Alan O'neill	Flarion-56APP (83)	1440
26479 STRAUB & PO	7590 05/07/2007 OKOTYLO		EXAMINER	
620 TINTON AVENUE			SMITH, MARCUS	
BLDG. B, 2ND TINTON FALI			ART UNIT	PAPER NUMBER
		•	2616	
		•	MAIL DATE	DELIVERY MODE
			05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	<b></b>
		10/667,309	O'NEILL, ALAN	
	Office Action Summary	Examiner	Art Unit	
		Marcus R. Smith	2616	•
Period fo	The MAILING DATE of this communication a	appears on the cover sheet w	ith the correspondence address	s
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by sta reply received by the Office later than three months after the ma ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a lod will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this commun. BANDONED (35 U.S.C. § 133).	
Status			·	
1)🛛	Responsive to communication(s) filed on 17	' September 2003.	•	
-		his action is non-final.		
3)	Since this application is in condition for allow	wance except for formal mat	ters, prosecution as to the mer	rits is
	closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposit	ion of Claims			
5)□ 6)⊠	Claim(s) 1-34 is/are pending in the application 4a) Of the above claim(s) is/are with the claim(s) is/are allowed.  Claim(s) 1,2,5-7,9,13-27 and 29-34 is/are recommodated by the claim(s) 3-4, 8, 10-12, and 28 is/are objected claim(s) are subject to restriction and	rawn from consideration. ejected. ed to.		
Applicat	ion Papers			
10)⊠	The specification is objected to by the Exam The drawing(s) filed on <u>17 September 2003</u> Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	is/are: a)⊠ accepted or b)[ he drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.	121(d).
Priority ι	ınder 35 U.S.C. § 119	•		
12) [ a)	Acknowledgment is made of a claim for foreignal All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a least	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No n received in this National Stag	<b>e</b>
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Attachmen  1) Notice	t(s) e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
2) 🔲 Notic 3) 🔯 Infor	te of Pro-652) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date 84*5/04, 5/04/05.	Paper No	(s)/Mail Date Informal Patent Application	

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## **DETAILED ACTION**

### Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 13-26 and 29-34 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims are directed to non-functional descriptive material, i.e. a packet format.

The applicant should review the Interim Guidelines for 35 U.S.C. 101: <a href="http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/guidelines101">http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/guidelines101</a> 20051026.pdf>

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2, 5-7, 9, and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Yano et al. (US 7,123,599).

with regards to claim 1, (see figures 5 and 12)

A communications method for use in a communications system including an end node and a first router, the method comprising:

column 8, lines 33-56);

operating said first router to receive a packet (step 1401, column 14,lines 12-17) including a source address (505) and an option field (503), said option field including a Care of Address (516) corresponding to said node (figure 5, describe the packet:

operating said first router to perform ingress filtering using said Care of Address as an ingress filter input, the result of said filtering being conditional on the value of the Care of Address (step 1403: column 14, lines 18-22: the examiner views perform filtering as processing the packet in the router.).

with regards to claim 27,

A communications method for use in a communications system including a mobile node and a first router, the method comprising:

operating said first router to receive a packet (step 1401, column 14,lines 12-17) including a source address (505) and an option field (503), said option field including an option type code (513) indicating which nodes receiving said packet should process the contents of said option field in a filtering operation (figure 5, describe the packet: column 8, lines 33-56); and

operating said first router to use contents of the option field in a filtering operation regardless of the value of the option type code (step 1403: column 14, lines 18-22: the examiner views perform filtering as processing the packet in the router.).

with regards to claim 2,

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The method of claim 1, wherein said ingress filtering is not dependent on the value of the source address (step 1403: column 14, lines 18-33: Filtering depends on the destination address not source address.).

with regards to claim 5,

The method of claim 1, wherein said packet is a multicast packet and wherein said ingress filtering includes: performing a reverse path forwarding check for said multicast packet (column 10, lines 52-62: The examiner views using the multicast routing table to determined the packet's destination as a reverse path forwarding check.).

with regards to claim 6.

The method of claim 1, wherein operating to receive a packet includes: receiving said packet on an interface (column 10, lines 29-33); and determining if said Care of Address includes an address preface (prefix) matching an address prefix associated with said first router (column 10, lines 63-67 through column 11, lines 1-5: For the router to change the destination address to Care of address, it must have the same prefix section.).

with regards to claim 7,

The method of claim 1, wherein operating to receive a packet includes: receiving said packet on an interface (column 10, lines 29-33); and determining if said Care of Address includes an address prefix matching an address prefix associated with said interface on said first router (column 10, lines 63-67 through column 11, lines 1-5: For the router to change the destination address to Care of address, it must have the same

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prefix section.); and setting a flag (set bits) in said packet indicating that said Care of Address has been validated when said determining indicates that said Care of Address includes an address prefix associated with said interface on said first router (s1407: column 14, lines 23-29).

with regards to claim 9,

The method of claim 1, further comprising: operating an additional (another) router to receive the packet from the first router; and wherein said packet includes an indicator (prefix addresses) indicating whether said additional router should exclude information (sub network indication section) from the option field including said Care of Address when performing ingress filtering (column 13, lines 20-30).

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 13 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yano et al. (US 7,123,599) in view of Leung (US 6,636,498) see IDS on 08/05/04.

with regards to claim 13, Yano et al. teaches:

An apparatus (terminal, 105) comprising:

a machine readable medium (processing section: column 6, lines 17-22), said machine readable medium including: an Internet Protocol packet (router advertisement message) from a source node (base station, 104) coupled to a first access router (103)

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used to route messages from said source node (column 6, lines 6-16), said access router being a single Internet Protocol hop from said source node (see figure 1, shows the router, 103 and base station, 104 is Internet hop away from each other.), said first access router having a first address prefix (212) of length (211) L bits (column 6, lines 35-40), where L is a positive integer greater than 0,(see figure 2, the prefix length is 64

- i) a source address field including a source address (see figure 2);
- ii); and

which is greater than 0.): said message including:

iii) an option field (204), said option field including an additional address (216) having a second address prefix that includes the L bit prefix (215) of said first access router as the first L bits of said second address prefix (column 7, lines 33-40: the prefix length, 215, is 64 which is the same as prefix length, 211.).

Yano et al. discloses all of the subject matter as described above except for a destination address field including a destination address, said destination address corresponding to one of another node and a group of nodes to which said packet is being directed.

Leung teaches a packet that has the source, 526, and destination, 528, address as standard IP header refer (RFC 791) for a registration request packet in order to standardized the system so that the packet can be sent and receive through all IP devices.

Therefore it would have been obvious to one having ordinary skill in the art at the time invention was made to use the destination in the IP header as taught by Leung in

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the system Yano et al. in order to standardized the system so that the packet can be sent and receive through all IP devices. Thus the destination address of the combined system will correspond to have could be the mobile node, or base station, or a multicast address.

with regards to claim 29,

A mobile node including:

means for generating a packet to be communicated from said mobile node (105) to a first access router used to route messages from said mobile node to a destination node (HA device, 101) (column 7, lines 45-50), said first access router having a first address (212) prefix of length L bits (column 6, lines 35-40), where L is a positive integer greater than 0, (see figure 2, the prefix length is 64 which is greater than 0.), said message including:

- i) a source address field (505) including a source address corresponding to said mobile node (see figure 5);
  - ii); and
- iii) an option field (503), said option field including an additional address having a second address (516) prefix that includes the L bit prefix (515) of said first access router as the first L bits of said second address prefix (column 8, lines 44-51: the prefix length, 515, is 64 which is the same as prefix length, 211.); and

a transmitter for transmitting said generated packet to said first access router (column 7, lines 40-50).

Yano et al. discloses all of the subject matter as described above except for a destination address field including a destination address, said destination address corresponding to said destination node to which said packet is being directed.

Leung teaches a packet that has the source, 526, and destination, 528, address as standard IP header refer (RFC 791) for a registration request packet in order to standardized the system so that the packet can be sent and receive through all IP devices.

Therefore it would have been obvious to one having ordinary skill in the art at the time invention was made to use the destination in the IP header as taught by Leung in the system Yano et al. in order to standardized the system so that the packet can be sent and receive through all IP devices. Thus the destination address of the combined system will correspond to have could be the Home agent address, 101.

#### Allowable Subject Matter

6. Claims 3-4, 8, 9-12 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus R. Smith whose telephone number is 571 270 1096. The examiner can normally be reached on Mon-Fri. 7:30 am - 5:00 pm every other Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MRS 4/25/07

SUPERVISORY PATENT EXAMPLE.

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